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SPS IPC Drives 2017, Hall 11

Industrie 4.0: The hour of implementation has arrived

- **New MindSphere Version 3.0 on Amazon Web Services (AWS) provides access to Siemens APIs and AWS cloud services for faster development**
- **Simotics IQ: New IoT concept for motors**
- **New partnership financing service to boost the implementation of Industrie 4.0**
- **Study affirms annual productivity increase due to digitalization of up to 9.8 percent**

Increasing demands by consumers for individual, high-quality products at favorable prices are posing new challenges for industrial enterprises which can only be resolved by digitalization. "With the Digital Enterprise portfolio, the technical conditions have been created for Industrie 4.0. To ensure successful implementation of Industrie 4.0, what we now need is an extended model for cooperative partnership based on mutual respect: Large-scale corporations supply platforms and components, medium-sized enterprises develop their own solutions and business models on this basis, and end customers integrate these into their digital value chain," explained Klaus Helmrich, Member of the Managing Board of Siemens AG at the SPS IPC Drives. Siemens will be showcasing a range of innovations at the show designed to shorten the time to market and to improve flexibility, efficiency and quality in the process and manufacturing industries. They range from the new Version 15 of the Engineering Framework TIA Portal through the IoT concept for motors Simotics IQ to the new Version 3.0 of the open cloud-based IoT operating system MindSphere. Siemens is also offering financing services such as pay-per-use models designed to simplify the implementation of digital solutions, aimed in particular at medium-sized enterprises.

As Siemens will be demonstrating at the show, digitalization is already helping small and medium-sized enterprises to boost their competitive standing today. Making this possible is the company's Digital Enterprise offering, comprising solutions for the digital twin over the entire value chain, the open cloud-based IoT operating system MindSphere and the world's leading automation portfolio.

Featured on the Siemens booth at the show is the new **MindSphere Version 3.0**. Now available for the first time on Amazon Web Services (AWS), it links the global scalability of the leading Siemens automation portfolio with AWS, the leading provider of cloud services. The new version features a more efficient development environment with an open API (Application Programming Interface), advanced analytics and extended connectivity, enabling the faster development of robust Industrial IoT solutions.

Also new is Version 15 of the Engineering-Framework **TIA Portal (Totally Integrated Automation)**, with the focus on new practical digitalization functions to shorten engineering times. These include the integration of handling functions and the connection and programming of robots.

With the introduction of **Simotics IQ**, Siemens has created an **IoT concept for motors**. This allows users to transfer data such as the operating and status parameters of low-voltage motors to MindSphere. Based on this data, the Simotics IQ MindApp delivers valuable analytical results and is able to provide useful information such as recommended actions for the timely planning of maintenance work, or rapid response warnings to prevent costly plant standstill. The transparency gained in this way helps enhance efficiency and increase productivity. The new generation of Simotics SD motors will be the first to benefit from Simotics IQ.

Illustrating the convergence between the virtual and the real production worlds at the fair will be an exhibit featuring a high-performance filling and sealing machine for the **pharmaceutical industry built by Bausch + Ströbel**. This company plans to use integrated hardware and software solutions from Siemens to achieve a 30 percent improvement of its engineering efficiency by 2020 by consistently applying digitalization across its entire value chain – from design and layout, simulation and optimization in the in-house virtualization center, all the way to commissioning and service.

Study affirms annual productivity increase due to digitalization of up to 9.8 percent

Manufacturing companies around the world are facing the challenge of financing the digital transformation, in some cases involving significant investment. The enormous gains in productivity made possible by digitalization are outlined in a new study entitled “The Digitalization Productivity Bonus: Sector Insights” from Siemens Financial Services (SFS). According to the paper, manufacturers can generate an annual increase in productivity through decreased manufacturing costs adding up to as much as 9.8 percent of total revenue. This is achieved by automating and digitalizing their production systems and so improving manufacturing productivity. Companies can use this released liquidity to invest in other areas such as new technologies and also to finance them over time. Under its “Financing 4.0” scheme, SFS offers tailored pay-per-use models and financing for software solutions that allow companies to make the long-term transition to new-generation digital technologies.

This press release is available at

www.siemens.com/press/PR2017110082COEN

Further information about Siemens at the SPS IPC Drives 2017 at

www.siemens.com/sps-ipc-drives and www.siemens.com/press/sps2017

The study from Siemens Financial Services is available at

<http://www.siemens.com/the-digitalization-productivity-bonus-sector-insights>

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Siemens AG (Berlin and Munich) is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for 170 years. The company is active around the globe, focusing on the areas of electrification, automation and digitalization. One of the world's largest producers of energy-efficient,

resource-saving technologies, Siemens is a leading supplier of efficient power generation and power transmission solutions and a pioneer in infrastructure solutions as well as automation, drive and software solutions for industry. The company is also a leading provider of medical imaging equipment – such as computed tomography and magnetic resonance imaging systems – and a leader in laboratory diagnostics as well as clinical IT. In fiscal 2017, which ended on September 30, 2017, Siemens generated revenue of €83.0 billion and net income of €6.2 billion. At the end of September 2017, the company had around 372,000 employees worldwide. Further information is available on the Internet at www.siemens.com.